## WHAT IS CLAIMED IS:

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1. A call processing method, comprising the steps of:
operating a telephone switch to detect receipt
of an incoming telephone call on a subscriber telephone
line;
igg angle in response to detecting an incoming telephone
call on the subscriber telephone line, operating the
telephone witch to transmit a message to a service
control point indicating receipt of a call on the
subscriber telephone line;
operating the service control point to transmit
a message to a tirst computer in response to the message
transmitted by said telephone switch; and
operating the first computer to select a first
party to service the incoming call.

- 2. The method of claim 1, further comprising:
- operating the first computer to determine the
  availability of the first party to service the incoming
  call by contacting a second computer, the second computer
  being associated with the first party.
- 1 3. The method of claim  $2 \setminus$  wherein the second computer
- 2 is coupled to a first telephone device by a
- 3 communications link which supports computer and telephone
- interaction, the step of operating the first computer to
- determine the availability of the first party including:

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- obtaining telephone device status information from the second computer.
- 1 4. The method of claim 3, further comprising:
  2 operating the first computer to send call
  3 related information to the second computer.
  - 5. The method of claim 4, further comprising:

    operating the first computer to send a first
    telephone number corresponding to the first telephone
    device to the service control point; and

    operating the service control point to instruct
    the telephone switch to complete the incoming call using
    the first telephone number as the destination telephone
    number.
- 1 6. The method of claim 5, wherein the first telephone 2 number is different from a telephone number used to route 3 the incoming call to said subscriber telephone line.
- 7. The method of claim 1, further comprising:
  2 operating the first computer to determine from
  3 a second computer if a telephone line associated with the
  4 first party is busy.
- 1 8. The method of claim 7, wherein determining from the 2 second computer if the telephone line is busy includes 3 using a telephone application programming interface to 4 obtain telephone line status information.

The method of claim 7, further comprising: 1 in response to detecting that said telephone line is busy: 3 controlling the second computer to display a plurality of call disposition options; and 5 operating the first computer to receive call 6 disposition\selection information from the second 7 computer system. 8 The method of claim 9, wherein the received call 10. 1 disposition information includes a telephone number to 2 which the incoming call should be completed, the method 3 further comprising the step of: 4 transmitting the received telephone number to 5 the service control point. 6 The method of claim 10, further comprising: 1 11. operating the service control point to transmit 2 the received telephone number to the telephone switch; 3 and 4 operating the telephone switch to complete the 5 call to the telephone line dorresponding to the received 6 telephone number. 7 The method of claim 11, the method further 12. 1 comprising: 2 transmitting call related data to a third 3 computer, the third computer being associated with a 4 party to whom the received telephone number corresponds.

The method of claim 9, wherein the received call 1 disposition information includes a telephone number, the 2 method further comprising: 3 operating the first computer to use the received telephone number to identify a third computer; 5 and 6 transmitting to the third computer call related 7 data. 8 The method of claim 13, further comprising: 1 transmitting the received telephone number to 2 the service control point; 3 operating the service control point to transmit 4 the received telephone number to the telephone switch; 5 6 and operating the telephone switch to complete the 7 call to the telephone line corresponding to the received 8 telephone number. 9 15. A communications system comprising: 1 a telephone switch \including trigger circuitry 2 for detecting calls to a first telephone line on which a 3 trigger is set, a first telephone number being associated 4 with the first telephone line; 5 a first subscriber telephone device coupled to 6 the telephone switch by the first telephone line; 7 a first computer coupled to the first 8 subscriber telephone device by a communications link 9

which supports the transmission of TAP signals between

the\first computer and the first subscriber telephone 11 devide; and 12 a second computer system coupled to the 13 telephone switch and to the first computer, the second 14 computer \including a routine for determining, as a 15 function of telephone line status information obtained 16 from the fixst computer, a telephone number to be used to 17 complete the routing of calls to the first telephone line 18 which are detected by said trigger circuitry. 19 The system of claim 15, further comprising: 16. 1 a service control point for coupling the 2 telephone switch to the second computer system. 3 The system of claim 15, where said trigger circuitry 1 is terminating attempt trigger circuitry. 2 The system of claim 17, further comprising: 18. 1 a first Internet\Protocol based computer 2 network for coupling the fixst computer to the second 3 computer. 4 The system of claim 18, further comprising: 1 a second Internet Protocol based computer 2 network for coupling the second computer to the service 3 control point; and 4 wherein the second computer system includes a 5

routine for controlling the transmission of call related

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7	data to the first computer system over said first
8	Internet Protocol based computer network.
1	20. The system of claim 19, further comprising;
2	a signaling system seven communications link
3	for coupling the service control point to said telephone
4	switch.
1	21. A communications method, comprising:
2	operating a first computer to contact a second
3	computer to determine the status of a telephone line
4	coupled to the second computer system; and
5	performing a call routing operation as a
6	function of the determined status of the telephone line
7	coupled to the second computer system.
1	22. The method of claim 21, wherein performing a call
2	routing operation includes:
3	operating the first computer to supply a
4	telephone number to a service control point; and
5	routing an incoming call to a telephone line
6	identified by said telephone number.
1	23. The method of claim 22, wherein routing an incoming
2	call includes:
3	operating the service control point to send a
4	message to a telephone switch to route the incoming call

using said telephone number.

1	24.\ The method of claim 23, further comprising, prior to
2	operating the first computer to contact the second
3	compuder:
4	$igg \ $ triggering, in response to said incoming call,
5	a terminating attempt trigger set on a first telephone
6	service subscriber line corresponding to a service

subscriber telephone number; and
contacting the service control point for call
processing instructions in response to triggering of the

terminating attempt trigger.

25. The method of claim 24, further comprising, prior to operating the first computer to contact the second computer:

operating the service control point to transmit a message including the service subscriber telephone number to the first computer; and

operating the first computer to select a party to service said incoming dall.

26. The method of claim 25, wherein the step of operating the first computer to supply a telephone number to a service control point includes:

selecting as said telephone number to be supplied to the service control point, a telephone number corresponding to the party selected to service said incoming call.